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174, Sri Ranga Complex
Amrutha Nagar Main Road
New Bank Colony, Konanakunte
Bangalore - 560 062.
Mobile : +91 97429 59595
Tele/Fax : 080-2632 2565
E-mail : civilexpertsltd@gmail.com
URL : www.civilexperts.in

NABL ACCREDITED AS PER ISO/IEC 17025:2005

Job No.: CECTC-SK-PMC-2014-15

Date: 30.04.2014

TEST REPORT

CLIENT	:	**Executive Engineer,** Rajarajeshwari Nagara Division, BBMP, Bangalore.
AGENCY	:	**Sri.K. Shivakumar,** Contractor, Bangalore.
NAME OF THE WORK	:	Providing and Laying HDPE Water line in HMT Layout Block-1 in J P Park, Ward No. 17
Reference	:	EE/RRND/PR/05-01/2013-14 Dated: 18.12.2013
SAMPLE ID	:	Cement
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-1989
1	a) Initial Setting Time	IS-4031 (Part -5)	155 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	385 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	28.50 %	-

Information is furnished by the Agency

Note:

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⇒ The results indicated above are based on the tests carried out on the samples received in the laboratory.

⇒ Any Query regarding the report must be reported immediately.

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Job No.: CECTC-SK-PMC-2014-15 Date 30.04.2014

TEST REPORT ON FINE AGGREGATES (SAND)
IS 383-1970 (RA- 2002)

Client : **Executive Engineer,** Rajarajeshwari Nagara Division, BBMP, Bangalore.
Agency : **Sri.K. Shivakumar,** Contractor, Bangalore.
Name of Work : Providing and Laying HDPE Water line in HMT Layout Block-1 in J P Park, Ward No. 17
Reference : EE/RRND/PR/05-01/2013-14 Dated: 18.12.2013
Date of Testing 30.04.2014
Material : Sand Total Wt. of Aggregates **1500**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	70	4.67	4.67	95.3	90-100
2.36	122	8.13	12.80	87.2	75-100
1.18	322	21.47	34.27	65.7	55-90
600 Micron	288	19.20	53.47	46.5	35-59
300 Micron	320	21.33	74.80	25.2	8-30
150 Micron	302	20.13	94.93	5.1	0-10

Information is furnished by the Agency

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Job No.: CECTC-SK-PMC-2014-15 Date 30.04.2014

TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Executive Engineer,** Rajarajeshwari Nagara Division, BBMP, Bangalore.
Agency : **Sri.K. Shivakumar,** Contractor, Bangalore.
Name of Work : Providing and Laying HDPE Water line in HMT Layout Block-1 in J P Park, Ward No. 17
Reference : EE/RRND/PR/05-01/2013-14 Dated: 18.12.2013
Date of Testing 30.04.2014
Material : 40mm Aggregates

Total Wt. of Aggregates in gms **15000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	360	2.40	2.40	97.60	95-100
20	8495	56.63	59.03	40.97	30-70
10	3617	24.11	83.15	16.85	10-35
4.75	2218	14.79	97.93	2.07	0-5

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Job No.: CECTC-SK-PMC-2014-15 Date 30.04.2014

TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Executive Engineer,** Rajarajeshwari Nagara Division, BBMP, Bangalore.
Agency : **Sri.K. Shivakumar,** Contractor, Bangalore.
Name of Work : Providing and Laying HDPE Water line in HMT Layout Block-1 in J P Park, Ward No. 17
Reference : EE/RRND/PR/05-01/2013-14 Dated: 18.12.2013
Date of Testing 30.04.2014
Material : 20mm Aggregates

Total Wt. of Aggregates in gms= **5000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
40	0	0	0	100	100
20	195	3.9	3.9	96.1	95-100
10	2748	55.0	58.9	41.1	25-55
4.75	1848	37.0	95.8	4.2	0-10

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Job No.: CECTC-SK-PMC-2014-15

Date: 30.05.2014

TEST REPORT ON CONCRETE CUBES

Client : **Executive Engineer,** Rajarajeshwari Nagara Division, BBMP, Bangalore.

Agency : **Sri.K. Shivakumar,** Contractor, Bangalore.

Name of the work : Providing and Laying HDPE Water line in HMT Layout Block-1 in J P Park, Ward No. 17

Reference : EE/RRND/PR/05-01/2013-14 Dated: 18.12.2013

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	02.05.2014	30.05.2014	8.149	492.8	21.90
2	02.05.2014	30.05.2014	8.164	501.6	22.29
3	02.05.2014	30.05.2014	8.152	509.4	22.64

Note:

1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported within 15 days from the date of testing.

For Civil Experts

Authorised Signature

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